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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,075	11/13/2003	Toshiaki Nakamura	8017-1108	7297
466 7590 09/13/2007 YOUNG & THOMPSON 745 SOUTH 23RD STREET 2ND FLOOR ARLINGTON, VA 22202			EXAMINER BAYAT, ALI	
			ART UNIT 2624	PAPER NUMBER
			MAIL DATE 09/13/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/706,075

Applicant(s)

NAKAMURA, TOSHIAKI

Examiner

Ali Bayat

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on amendment filed on 7/26/07.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-7 and 9-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-7 and 9-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Response to Amendment

1. Applicant's arguments filed on 7/26/07 have been fully considered but they are not persuasive.

On page 7 of remarks, Applicant argues that, "the SLATTER microprocessor does not generate a corrected moving image signal as output, as is claimed in claim 1. The microprocessor in SLATTER generates a "feedback" correction signal as output directed to the image capture means. SLATTER describes a microprocessor connected to an image capture means *for* controlling a movement means for adjusting the relative orientations of a detector array and an optical system (col. 2, lines 55-65, col. 3, lines 41-47, col. 4, lines 41-44). The output generated by the SLATTER microprocessor, as illustrated in Figure 3, are movement signals via "output lines 40,41,42 used to drive the detector actuators 32,33 and lens focus actuator 44" (col. 7, lines 12-15), to move the lenses 21 and the detector array 34; the output is not an image signal already corrected for distortion, as claimed by the applicant.

Examiner respectfully disagrees with Applicant; Slatter provides an image capture means (Fig.3 element 20, col.7 lines 42-45, note camera, which could be replaced by a video) for capturing the document placed on script base to generate a moving image signal (Fig.3 element 20, col.7 lines 42-45, note camera). Further the Slatter microprocessor 38 in Figures 2 and 6, outputs the corrected image signals (element 51, in Figures 2 and 6), by Scheimpflug condition auto-focus, on received

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image signals from detector 34. Which corresponds to removing distortions (col.7 lines 39-41, also col.9 lines 13-22).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2,4-7 and 9-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Slatter et al. (US 6,567,126)

In regard to claim 1, Slatter provides for a document camera (Fig.3, col. 7 lines 42-44) comprising: a script base (Fig.3 element 56, col.7 lines 40-44) for placing thereon a document to be captured (Fig.3 element 54, col.7 lines 42-43); image capture means (Fig.3 element 20, col.7 lines 40-45, note the camera) for capturing the document placed on said script base to generate a moving image signal (Fig.3 element 20, note that the camera, which could be replaced by a video, for generating a moving image signal, see col.3 lines 13-18); said image capture means (Fig.3 element 20) (i) having an imager device(Fig.3 element 20) and an optical system (Fig.6 element 91, col.9 lines 6-10) integrally incorporated therein (Fig.6 element 84, col.9 lines 19-23) , and (ii) being disposed above said script base (Fig.3 element 56) at a location away from the center of said script base (Fig.3 element 20, col.7 lines 44-45, note "camera

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20, which is mounted atop a post 60 that is clamped 62 to an edge 64 of desk 58"); an image signal processor (Fig.6 element 38, col.9 lines 13-14) connected to said image capture means to receive said moving image signal (Fig.6 element 34, col.9 lines 13-14) and adapted to generate a corrected moving image signal as output (Fig.6 element 51, which the same as the first embodiment col.7 lines 15-20) by removing distortions in said received moving image signal (col.9 lines 9-12).

With regard to claim 2, Slatter provides a light source placed in proximity to said image capture means for illuminating a document on said script base (light source is inherent, in proximity to image capture, because other wise camera 20 of Fig.3, would not be able to capture an image of a piece of A4 size paper 54 resting on the surface 56 of a desk 58. see col.7 lines 42-44).

In regard to claims 4 and 9, Slatter provides for an image signal processor (Fig.6 element 38, col.9 lines 13-14) comprises a keystone distortion correcting function (col.8 lines 24-34) for correcting an optical distortion (col.8 lines 30-34) caused by an inclination (Fig.4 element 114, col. 8 lines 24-25) of the optical axis of said optical system with respect to said script base (Fig.3 element 56).

As to claims 5 and 10 Slatter provides for an image signal processor (Fig.6 element 38, col.9 lines 13-14) further comprises a correction factor adjusting function (col.8 lines 50-55, note the formula) for varying a correction factor in accordance with a change in the focal distance of said optical system (Fig.4 element S2' refers to focal distance, col.8 lines 45-55).

In regard to claims 6-7 and 11-12, Slatter provides for an image signal processor

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(Fig.6 element 38, col.9 lines 13-14) further comprises a distortion correcting function for correcting a distortion which varies with a change in the focal distance (Fig.4 element S2' refers to focal distance, col.8 lines 45-55) of said optical system (col.8 lines 50-55, note lens equation to calculate $S2=S2' \cdot f2/(f2-S2')$ in addition to said keystone distortion correcting function (col.8 lines 24-34).

With regard to claim 13, see the rejection of claim 1. It recites similar limitations as claim 1. Hence it is similarly analyzed and rejected.

Conclusion

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ali Bayat whose telephone number is 571-272-7444.

The examiner can normally be reached on M-F 9:00 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on 571-272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ali Bayat *AB*
Patent examiner
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9/04/07



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